

Product data sheet

HV gate valve, Series 111, DN none Ordering No. 11148-PE24

Description

Flange ISO-F 250

Actuator pneumatic, double acting

- with position indicator

Feedthrough Bellows

Technical data

Leak rate - Valve body $< 1 \cdot 10^{-9}$ mbar Is⁻¹ - Valve seat $< 1 \cdot 10^{-9}$ mbar Is⁻¹

Pressure range 1 · 10⁻⁸ mbar to 1.2 bar (abs)

Differential pressure on the gate \leq 1.2 bar

Differential pressure at opening \leq 30 mbar

Conductance (molecular flow) 21 690 ls⁻¹

Cycles until first service 200 000 (unheated and under clean conditions)

Temperature – Valve Body ≤ 150 °C (bake-out max. 24h)

(Maximum values: depending on operating conditions and sealing materials)- Actuator≤ 120 °C- Solenoid valve≤ 50 °C- Position indicator≤ 80 °C

Heating and cooling rate 50 °C h⁻¹

Material (main components) – Valve Body AISI 304 (1.4301)

- Mechanism AISI 316L (1.4404), AISI 304 (1.4301)

- Bellows AISI 316L (1.4404, 1.4435)

Bushing Hydrocarbonate

Seal – Bonnet FKM (Viton®)

– Gate
 – Actuator
 FKM (Viton®), O-ring
 FKM (Viton®), NBR

Mounting position any

Volume of pneumatic actuator 0.35 I / 0.0122 ft³

Compressed air 5-7 bar / 73-102 psi

min. - max. overpressure

Compressed air connection G1/8" (1/8" NPT for USA)

Actuation time - closing 4 s - opening 4 s

Weight 51 kg / 112 lbs

Behavior in case of compressed - Valve closed valve remains closed

air pressure drop — Valve open undefined

Behavior in case of power failure — Valve closed depending on customer installation

Valve open depending on customer installation

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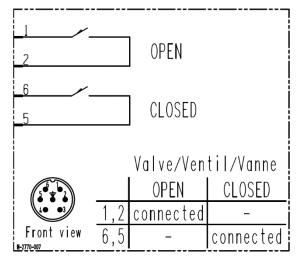
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Electrical connections

Position indicator

Type Micro switch Voltage $\leq 50 \text{ V AC / DC}$

Current max. ≤ 1.2 A



Wiring diagram

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